

**WORK SHEET****Module 19****Analyzing Montana Crash Statistics**

Name_____ Date_____

Score_____

Use the crash charts from the *Montana Highway Patrol 2004 Annual Report* to complete the worksheet.

1. Use the chart: "Driver-Related Contributing Circumstances by Roadway Type"
 - Identify the top ten driver behaviors contributing to the largest total number of crashes. List the ten behaviors with number one being the behavior with the most crashes. Example: 11,386 total crashes were recorded as "None" under the "Contributing Circumstances."
 - On the Rural/County roads, identify the top five driver behaviors that contributed to the greatest number of Fatal crashes.
 - On the Rural/County roads, identify the top seven driver behaviors that contributed to the greatest number of Total crashes.
2. Use the chart: "Vehicles by First Harmful Event"
 - Identify the largest number of fatalities that occurred in a non-collision event and identify what that event was.
 - Identify how many crashes involved a tree, and how many fatalities occurred.
3. Use the chart: "Vehicles by Most Harmful Event"
 - Identify the top ten fixed objects (not moving) that contributed to the greatest number of crashes with number one being the object with the most crashes.
 - Use the findings to identify driver behaviors that are the most risky and consider how the risky drivers' behavior can be changed to less risky behavior.

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Driver-Related Contributing Circumstances By Roadway Type

*Contributing Circumstances	Interstate		Primary		Secondary		Rural / County		Urban / Local		Private		Totals	
	Fatal	Total	Fatal	Total	Fatal	Total	Fatal	Total	Fatal	Total	Fatal	Total	Fatal	Total
Careless Driving	9	500	22	1,455	13	2,006	12	937	3	997		47	59	5,942
Cell Phone use		6		14	1	28		14		15			1	77
Disregard Marker/Signal	1	39	5	254	5	468	3	77		162			14	1,000
Exceed Stated Speed Limit	1	27	12	77	11	109	13	108	1	94	1	1	38	416
Failed to Yield Right of Way		51	8	821	5	1,446	1	177	1	1,108		14	15	3,617
Fall Asleep, Fainted, Etc.	7	148	3	146	10	168	4	81		30			24	573
Followed Too Closely		55		573		702		32		100				1,462
Improper Backing Operation		2		39		100		31		253		29		454
Improper Lane Change	2	38		122	1	183		5		24			3	372
Improper Parking		1		7		18		7		46		3		82
Improper Passing		10	2	58	1	81		23		25			3	197
Improper Signals	1	1		7		13		6		4			1	31
Inattentive Driving	15	452	20	1,746	24	2,689	18	796	1	1,371		51	78	7,105
License Restriction		3		14	1	29	2	21		21	1	1	4	89
Made Improper Turn		11	2	137	2	236		27		102		3	4	516
None	8	569	31	3,124	26	4,604	5	405	6	2,629		55	76	11,386
Other	7	145	4	334	4	449	7	288	3	248		18	25	1,482
Too Fast For Conditions	9	658	12	569	11	792	19	958	3	366	1	22	55	3,365
Under Inf. Of Alcohol	4	113	20	368	21	593	24	523	1	295		13	70	1,905
Under Inf. Of Drugs	1	12	2	23	1	41	4	32		22			8	130
Wrong Side or Wrong Way	2	9	8	45	6	70	4	38		44			20	206
Totals	67	2,850	151	9,933	143	14,825	116	4,586	19	7,956	2	257	498	40,407

* There are five contributing circumstances allowed per driver/vehicle combination, however the investigating officer may use all or none of them.

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Vehicles by First Harmful Event

Motor Vehicle in Transport
means a moving vehicle

First Harmful Event	All Crashes	Fatal Crashes	Injury Crashes	First Harmful Event	All Crashes	Fatal Crashes	Injury Crashes
Non-Collision				Impact Attenuator	29	2	12
Fire/Explosion	91	0	1	Luminaire/Light Support	106	2	30
Immersion	11	0	2	Motor Veh. At RR Crossing	14	0	3
Jackknife	84	0	15	MV in Transp. Other roadway	2	0	0
Other Non-collision	153	3	50	Motor Vehicle in Transport	24,840	129	6,798
Overturn	2,207	62	1,088	Mail Box	97	0	17
Unknown	10	0	1	Median Barrier	168	1	36
Collision With				Other Fixed Object	254	6	64
Bridge Parapet End	8	0	3	Other Object, not Fixed	154	1	20
Bridge Rail	75	0	25	Other Post	172	8	43
Bridge/Pier/Abutment	38	2	6	Overhead Sign Support	10	1	3
Culvert	49	1	24	Parked Motor Vehicle	1,744	3	140
Curb	115	2	32	Pedalcycle	166	2	140
Ditch	557	10	221	Pedestrian	153	10	111
Domestic Animal	231	4	47	Railway Train	14	0	5
Embankment	410	9	180	Rock or Boulder	98	1	36
Fence	618	6	149	Tree	361	9	136
Guardrail End	120	1	53	Utility Pole	235	0	81
Guardrail Face	439	4	101	Wild Animal	1,795	2	114
Highway Traffic Sign Post	190	4	55				
				Total	35,818	285	9,842

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Vehicles by Most Harmful Event

Most Harmful Event	All Crashes	Fatal Crashes	Injury Crashes	Most Harmful Event	All Crashes	Fatal Crashes	Injury Crashes
Non-Collision				Impact Attenuator	9	0	2
Fire/Explosion	112	5	14	Luminaire/Light Support	103	2	25
Immersion	16	0	4	Motor Veh. At RR Crossing	16	0	5
Jackknife	51	0	4	MV in Transp. Other roadway	2	0	0
Other Non-collision	111	1	39	Motor Vehicle in Transport	24,691	125	6,703
Overturn	2,979	110	1,567	Mail Box	66	0	3
Unknown	8	0	1	Median Barrier	151	0	26
Collision With				Other Fixed Object	296	3	86
Bridge Parapet End	6	0	1	Other Object, not Fixed	137	0	18
Bridge Rail	65	0	17	Other Post	95	1	11
Bridge/Pier/Abutment	36	1	6	Overhead Sign Support	9	0	2
Culvert	43	0	14	Parked Motor Vehicle	1,799	3	156
Curb	32	0	7	Pedalcycle	164	2	138
Ditch	439	1	162	Pedestrian	153	10	111
Domestic Animal	221	2	42	Railway Train	15	0	5
Embankment	315	6	123	Rock or Boulder	100	0	27
Fence	518	1	69	Tree	440	8	168
Guardrail End	96	0	29	Utility Pole	260	0	87
Guardrail Face	394	2	71	Wild Animal	1,734	1	82
Highway Traffic Sign Post	132	1	17	Total	35,814	285	9,842